

Product Information

Streptavidin-labeled gold nanorods

Cat. No.: X26-04-ZQ465

Size: 100 mg; 250 mg; 500 mg; 1 g; 5 g

Synonym: SA-AuNRs; Streptavidin-conjugated gold rods; SA-functionalized Au nanorods

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	These anisotropic metallic nanostructures exhibit unique longitudinal surface plasmon resonance (LSPR) and are surface-modified with streptavidin. The gold nanorod core provides intense optical scattering and photothermal properties, while the streptavidin coating enables specific molecular assembly <i>via</i> biotin-binding. The design is engineered for applications requiring high-sensitivity optical detection and precise molecular orientation.
Source	Custom synthesis
Functional Group	Streptavidin
Form	Solid or powder
Purity	≥95%
Impurities	No visible impurities to the naked eye.
Identity	HPLC/MS/NMR
Stability	This product is stable for one year when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	This product is used as a traceable probe in analytical research and as a component in the development of plasmonic sensors. It is also applied in the study of light-matter interactions at the nanoscale.
Storage	Store at -20°C.